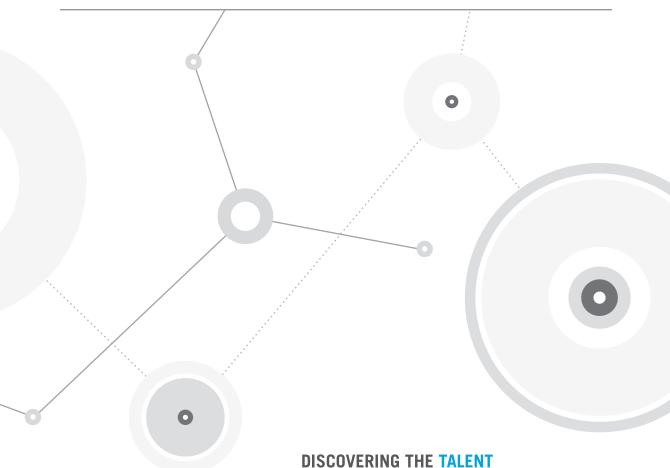
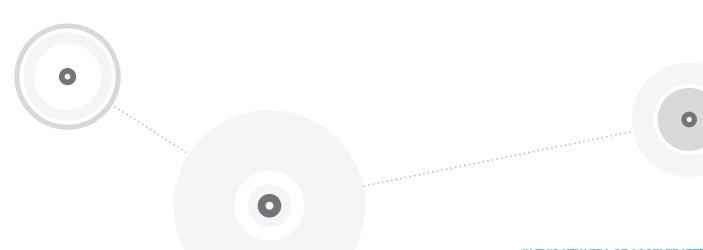


A Tipping Point in Cancer Research

Annual Report 2011



TO DISCOVER THE CURE



A Tipping Point in Cancer Research

Celebrating Extraordinary Progress

SCIENTISTS, RESEARCH ORGANIZATIONS AND THE NATIONAL CANCER INSTITUTE ALL AGREE:

we are at a tipping point in cancer research. The convergence of knowledge from across the spectrum of cutting-edge science combined with powerful new technologies has created a deeper understanding of cancers and advanced our ability to detect and treat these diseases earlier and more effectively.

IN THIS NEW ERA OF ACCELERATED PROGRESS,

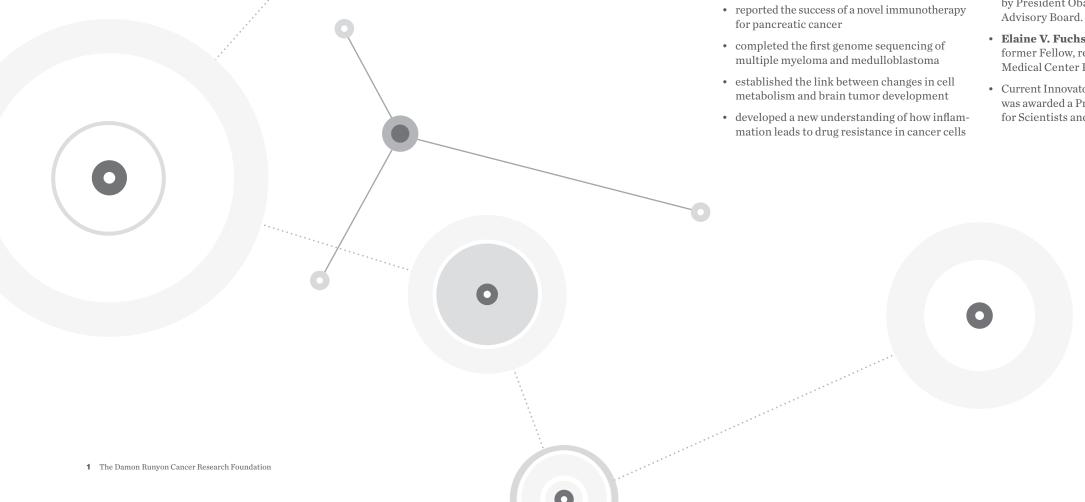
it is more important than ever that we support creative young scientists who can harness the momentum of the past decade to transform the way we prevent, detect, and treat cancer. The Damon Runyon Cancer Research Foundation is playing a central role by funding groundbreaking basic and clinical cancer research. In the past year, our brilliant young scientists:

 led studies resulting in FDA approval of two new drugs for advanced melanoma: Yervoy, an immunotherapy, and Zelboraf, a targeted therapy

THEIR INNOVATIVE CONTRIBUTIONS HAVE BEEN WIDELY RECOGNIZED:

- 2 Damon Runyon scientists were included in Science magazine's Insights of the Decade, which listed "10 insights that have changed science since the dawn of the new millennium."
- 2 Damon Runyon alumni were elected to the National Academy of Sciences (the science "Hall of Fame"), bringing Damon Runyon's total to 61.
- William R. Sellers, MD, Board Member and former Clinical Investigator, was appointed by President Obama to the National Cancer Advisory Board.
- Elaine V. Fuchs, PhD, Board Member and former Fellow, received the prestigious Albany Medical Center Prize.
- Current Innovator Muneesh Tewari, MD, PhD, was awarded a Presidential Early Career Award for Scientists and Engineers.

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A Tipping Point in Cancer Research A Time to Act

IT IS CRITICAL THAT WE SEIZE THIS MOMENT AND ACT ON THE EXTRAORDINARY PROGRESS OF THE PAST YEAR AND THE PAST DECADE. That is why the Damon Runyon Cancer Research Foundation is increasing its investment. In the past year, we awarded \$10.2 million in new scientific grants and funded 122 scientists at 41 institutions in 17 states.

WE ALSO LAUNCHED A NEW INITIATIVE, THE CANCER BREAKTHROUGH FUND,

to invest in 100 of the most brilliant young cancer researchers. We believe that these innovative minds, with their audacity and unfettered creativity, are the key to building on recent gains and translating discoveries into solutions.

Our goal is to raise a fund of \$50 million over the next five years that we will put to work as rapidly as possible to support 50 Damon Runyon-Rachleff Innovators focused on high-risk, high-reward discovery and 50 Damon Runyon Clinical Investigators committed to bringing new therapies to cancer patients. The inaugural event in January in Menlo Park, California, raised \$1.6M in new commitments for this bold new effort.

Accelerating Cancer Cures, a part of the Cancer Breakthrough Fund, is an historic collaboration of the biopharmaceutical industry, academia and Damon Runyon formed to address the critical shortage of high-quality clinical investigators. This new model for collaboration will increase resources to support young clinical researchers, rebuilding the ranks of those who have the potential to make cutting-edge breakthroughs in cancer treatments, translating science into cures.

Its charter members have already pledged \$5.1 million and include:





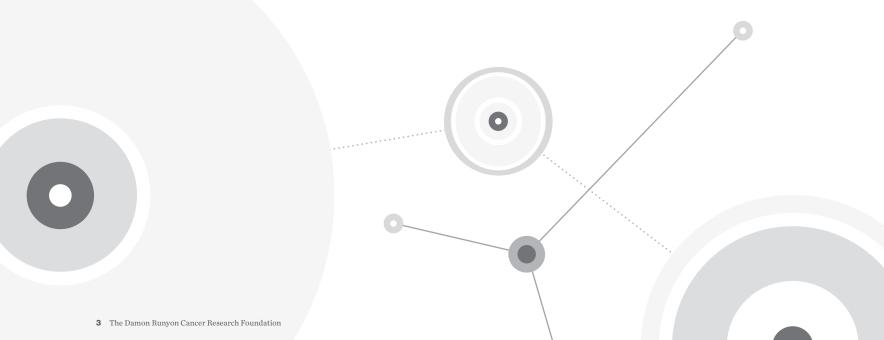








www.damonrunyon.org/accelerate



OF ALL DONATIONS **FUND CANCER RESEARCH**

All administrative and fundraising expenses are paid through **Damon Runyon Broadway Tickets and our endov**

Thank You To Our Donors

Every new discovery that our young scientists make is directly linked to your support, and we are immensely grateful for the generosity of all of our donors. Thanks to you, Damon Runyon raised nearly \$10 million and received more than \$1.6 million in bequests in Fiscal Year 2011.



Our **Annual Breakfast**, honoring Boston business and philanthropic leader Norman B. Leventhal, raised \$1.16 million.

The Damon Runyon 5K at Yankee Stadium raised \$400,000 in August 2010, drawing a capacity crowd of 4,000 participants. A special thanks to Walgreens, Unilever/White Rose, 24 Hour Fitness, New York Daily News, NBC4, SiriusXM, Poland Spring and Utz for their sponsorship.

New donors, including the Jake Wetchler Foundation for Innovative Pediatric Cancer Research and the Richard A. Lumsden Foundation, committed to sponsoring individual Damon Runyon scientists.

Damon Runyon Broadway Tickets

continues to offer premium seats to the best shows in town like *The Book of Mormon*. Thanks once again to the Shubert Organization, Nederlander Productions, Jujamcyn Theaters and Disney Theatrical Productions for making this program possible.

Learn more at www.damonrunyon.org/broadway



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Samuel C. Silverstein, MD

John C. Dalton Professor
Department of Physiology and
Cellular Biophysics
Columbia University
New York, New York



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Damon Runyon Award Programs

DAMON RUNYON FELLOWSHIP AWARD

Supports the training of the brightest postdoctoral scientists as they embark upon their research careers. This funding enables them to be mentored by established investigators in leading research laboratories across the country.

Three-Year Award

Basic Scientists: \$156,000 Physician-Scientists: \$186,000

DALE F. FREY AWARD FOR BREAKTHROUGH SCIENTISTS

Supports a select few Damon Runyon Fellows who have greatly exceeded the Foundation's highest expectations. This additional investment in these exceptional individuals is to help catapult their research careers and their impact on cancer.

Two-Year Award: \$200,000

This program was created to honor Dale F. Frey, retired Chairman of the Damon Runyon Board of Directors, in recognition of his sixteen years of visionary leadership.

DAMON RUNYON-RACHLEFF INNOVATION AWARD

Supports the next generation of exceptionally creative thinkers with high-risk, high-reward ideas that have the potential to significantly impact our understanding of and/or approaches to the prevention, diagnosis or treatment of cancer.

Three-Year Award: \$450,000

This program is possible through a founding grant from Andrew and Debra Rachleff, and the support of the Island Outreach Foundation.

DAMON RUNYON CLINICAL INVESTIGATOR AWARD

Supports early career physician-scientists conducting patient-oriented research. The goal of this innovative program is to increase the number of physicians capable of moving seamlessly between the laboratory and the patient's bedside in search of breakthrough treatments.

Three-Year Award: \$450,000 plus up to \$100,000 for medical school loan repayment

CONTINUATION GRANT

Supports Damon Runyon Clinical Investigators who are approaching the end of their original three-year awards and need extra time and funding to complete a promising avenue of research or initiate/continue a clinical trial.

Two-Year Award: \$300,000

This program is possible through the support of the William K. Bowes, Jr., Foundation, and Connie and Bob Lurie.

Damon Runyon Fellowship Award Committee

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Frederick R. Cross, PhD

Professor Laboratory of Yeast Molecular Genetics The Rockefeller University New York, New York

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Investigator, Howard Hughes Medical Institute Professor, Department of Biological Sciences Stanford University Stanford, California

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Associate Professor Department of Microbiology and Immunology Diabetes Center University of California San Francisco, California

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Avon Foundation Professor of Medicine and Pathology Institute for Cancer Genetics Assistant Director of Neuro-Oncology Herbert Irving Comprehensive Cancer Center Columbia University New York, New York

Norbert Perrimon, PhD

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Investigator, Howard Hughes
Medical Institute
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Terry A. Van Dyke, PhD

Chief, Mouse Cancer Genetics Program Center for Cancer Research Director, Center for Advanced Preclinical Research National Cancer Institute at Frederick Frederick, Maryland

Johannes Walter, PhD

Professor
Department of Biological Chemistry
and Molecular Pharmacology
Harvard Medical School
Boston, Massachusetts





Damon Runyon Fellowship Awards

CALIFORNIA

Daniel H. Kim, PhD

"Epigenetic regulation of X-chromosome inactivation by noncoding RNAs" with Barbara J. Wold, PhD, California Institute of Technology, Pasadena

James P. Scott-Browne, PhD*

Fraternal Order of Eagles Fellow "Function and genomic stability of 5-hydroxymethylcytosine" with Anjana Rao, PhD, La Jolla Institute for Allergy and Immunology, La Jolla

Gabriel C. Lander, PhD

Merck Fellow

"Structural roles of enzymes and substrates in the construction of a microtubule platform that catalyzes APC-directed ubiquitination of spindle checkpoint proteins" with Eva Nogales, PhD, Lawrence Berkeley National Laboratory, Berkeley

Sharsti L. Sandall, PhD

"Mechanisms regulating maintenance of stem cells and the niche in Drosophila" with D. Leanne Jones, PhD, Salk Institute for Biological Studies, La Jolla

Hua Lu, PhD*

The Jake Wetchler Foundation for Pediatric Innovation Fellow

"Homogeneous antibody-drug conjugates containing unnatural amino acid for targeted AML therapy" with Peter G. Schultz, PhD, The Scripps Research Institute, La Jolla

Raymond E. Moellering, PhD*

Howard Hughes Medical Institute Fellow "Characterization of novel pathogenic pathways in cancer: do tumor cells use quorum-sensing molecules to support malignancy?" with Benjamin F. Cravatt, PhD, The Scripps Research Institute,

Pedro J. Batista, PhD*

Kenneth G. and Elaine A. Langone Fellow "LincRNA dependent transcriptional memory in cancer stem cells" with Howard Y. Chang, MD, PhD, Stanford University School of Medicine, Stanford

Sean C. Bendall, PhD

"Improved single-cell phospho-protein signaling analysis of oncogenic progression in leukemia" with Garry P. Nolan, PhD, Stanford University School of Medicine Stanford

David K. Breslow, PhD*

Connie and Bob Lurie Fellow "Dissecting the functions of phosphoinositide lipids in the primary cilium" with Maxence V. Nachury. PhD, Stanford University School of Medicine, Stanford

Won-Suk Chung, PhD

"Phagocytic capacity of glial cells and their role in glioma progression" with Ben A. Barres, MD, PhD, Stanford University School of Medicine, Stanford

Sarah E. Ewald, PhD*

Dennis and Marsha Dammerman Fellow "Innate immune detection of Toxoplasma gondii in the host cell cytosol" with John C. Boothroyd, PhD. Stanford University School of Medicine, Stanford

Tom A. Hartl, PhD

Robert Black Fellow "Serotonergic neuronal control of growth in Drosophila" with Matthew P. Scott, PhD, Stanford University School of Medicine, Stanford

Liana F. Lareau, PhD

Howard Hughes Medical Institute Fellow "Global analysis of the role of 5" untranslated regions in the regulation of translation" with Patrick O. Brown. MD, PhD, Stanford University School of Medicine, Stanford

Wan-Jin Lu, PhD*

Merck Fellow

"The role of injury-inducible epithelial/ stromal feedback signaling pathways in bladder cancer" with Philip A. Beachy, PhD, Stanford University School of Medicine, Stanford

Benjamin R. Myers, PhD

"Analyzing the mechanism of Hedgehog signaling regulation by the Patched protein" with Philip A. Beachy, PhD, Stanford University School of Medicine, Stanford

Jason A. Reuter, PhD

"Characterizing non-coding RNA interactions with dominant regulators of neuronal differentiation" with Michael P. Snyder, PhD, Stanford University School of Medicine, Stanford

Volker Schweikhard, PhD

"A single-molecule study of factors TFIIS and TFIIF during transcriptional elongation by RNA polymerase II" with Steven M. Block, PhD, Stanford University School of Medicine, Stanford

Sabrina L. Spencer, PhD

"Protein expression dynamics and thresholds in cell cycle commitment" with Tobias Meyer, PhD, Stanford University School of Medicine, Stanford

Alexander Ward, PhD*

Howard Hughes Medical Institute Fellow "Investigations of cancer signaling pathways in *Drosophila* olfactory system development" with Liqun Luo, PhD, Stanford University School of Medicine, Stanford

Qiong Yang, PhD*

Howard Hughes Medical Institute Fellow "Nonlinear coupling of positive and negative feedback loops in Xenopus early embryonic cycles" with James E. Ferrell, MD, PhD, Stanford University School of Medicine, Stanford

Leon Y. Chan, PhD*

Howard Hughes Medical Institute Fellow "Determining the mechanism of stressinduced ribosomal protein mRNA degradation" with Karsten Weis, PhD, University of California, Berkeley

Yumi Kim, PhD*

Howard Hughes Medical Institute Fellow "Identification of the signaling cascades regulating meiotic chromosome dynamics" with Abby F. Dernburg, PhD, University of California, Berkeley

Maurizio Righini, PhD*

"Single molecule translation control" with Carlos Bustamante, PhD, University of California, Berkeley

Lara C. Skwarek, PhD

Robert Black Fellow

"In vivo identification of novel regulators of epithelial-mesenchymal transition" with David Bilder, PhD, University of California, Berkeley

Adam de la Zerda, PhD*

"Imaging cancer glycomes with functionalized carbon nanotubes" with Carolyn R. Bertozzi, PhD, University of California, Berkeley

Orkun Akin, PhD

Howard Hughes Medical Institute Fellow "Live imaging of neuronal targeting in the Drosophila visual system with 2-photon microscopy" with S. Lawrence Zipursky, PhD, University of California,

Christopher J. Hale, PhD

Howard Hughes Medical Institute Fellow "Understanding how a histone methyltransferase links DNA replication, repair and transcription" with Steven E. Jacobsen, PhD, University of California,

Christopher S. Campbell, PhD

"Control of the chromosomal passenger complex by post-translational modification" with Arshad B. Desai, PhD. University of California, San Diego

Kimberley Evason, MD, PhD†

Robert Black Fellow

"Hepatic stellate cell development and role in carcinogenesis" with Didier Y.R. Stainier, PhD, University of California, San Francisco

Xi Huang, PhD*

"Functional significance of potassium channel EAG2 in medulloblastoma" with Lily Y. Jan, PhD, University of California, San Francisco

Calvin H. Jan, PhD*

Rebecca Ridley Kry Fellow

"Studying translation with subcellular resolution" with Jonathan S. Weissman. PhD, University of California, San Francisco, California

Dale Muzzey, PhD

Howard Hughes Medical Institute Fellow "Resolving general principles of cis translational regulation in eukaryotes

using high-throughput and mechanistic analyses of allelic expression in Candida albicans" with Jonathan S. Weissman, PhD, University of California, San Francisco

Deniz Simsek, PhD*

Philip O'Bryan Montgomery Jr. Fellow "Understanding the physiological relevance of distinct polyubiquitin chains in the maintenance of genome integrity" with David P. Toczyski, PhD, University of California, San Francisco

Nathan D. Thomsen, PhD*

Suzanne and Bob Wright Fellow "Molecular and cellular mechanism of caspase activation by small molecule proenzyme activators" with James A. Wells, PhD, University of California, San Francisco

Hyun Youk, PhD*

Howard Hughes Medical Institute Fellow "Synthetic development: Elucidating principles for genetically encoding simple multicellular architectures using Saccharomyces cerevisiae as a model system" with Wendell A. Lim, PhD, University of California, San Francisco

Jesse Zalatan, PhD

"Elucidating the kinetic mechanism by which a scaffold protein regulates MAPK signaling" with Wendell A. Lim. PhD. University of California, San Francisco

COLORADO

Jianfu (Jeff) Chen, PhD

 $Howard\, Hughes\, Medical\, Institute\, Fellow$ "Epigenetic and cellular control of lung development" with Lee A. Niswander, PhD, University of Colorado Denver,

CONNECTICUT

Kristina M. Herbert, PhD

Howard Hughes Medical Institute Fellow "Regulation and mechanism of pri-miRNA processing by Drosha and DGCR8" with Joan A. Steitz, PhD, Yale University, New Haven

ILLINOIS

Yoko Shibata, PhD*

Howard Hughes Medical Institute Fellow "Identifying protein quality control mechanisms in the nucleus" with Richard I. Morimoto, PhD, Northwestern University, Evanston

MARYLAND

Nicholas R. Guydosh, PhD

 $.\\Howard\, Hughes\, \stackrel{\cdot}{Medical}\, Institute\, Fellow$ "Genome-wide regulation and dynamics of ribosome elongation" with Rachel D. Green, PhD, The Johns Hopkins University, Baltimore

Chuan-Hsiang Huang, MD, PhD

Harold L. Plotnick Fellow "Adaptation and gradient amplification in the chemotaxis signaling pathway" with Peter N. Devreotes, PhD, The Johns Hopkins University, Baltimore

Rita L. Strack, PhD

Lallage Feazel Wall Fellow "The mechanistic role of Upf1, Upf2, and Upf3 in nonsense-mediated decay"

with Rachel D. Green, PhD, The Johns Hopkins University, Baltimore

Robin E. Stanley, PhD

"Structural and biochemical characterization of the autophagy specific class 3 phosphatidylinositol 3-phosphate complex" with James H. Hurley, PhD. National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda

MASSACHUSETTS

Costas A. Lyssiotis, PhD

Amgen Fellow

"Reversing the Warburg effect in basal-like breast cancer: a unique point for therapeutic intervention" with Lewis C. Cantley, PhD, Beth Israel Deaconess Medical Center, Boston

Xu Tan, PhD

"Discovery of new potent short hairpin RNAs targeting pathogenic viruses" with Stephen J. Elledge, PhD, Brigham and Women's Hospital, Boston

Sujun Hua, PhD

"Genomic analysis of core transcriptional regulatory networks in normal and malignant neural stem cells" with Ronald A. DePinho, MD, Dana-Farber Cancer Institute, Boston

Jason M. Crawford, PhD

"Systematic approaches to discovering bioactive bacterial metabolites" with Jon Clardy, PhD, Harvard Medical School, Boston

Harrison W. Gabel, PhD

"Dissecting the mechanism and function of Arc regulation by the Angelman Syndrome-associated ubiquitin ligase Ube3a" with Michael E. Greenberg, PhD, Harvard Medical School, Boston

Simon Jenni, PhD

Howard Hughes Medical Institute Fellow "Structural and functional studies of kinetochores" with Stephen C. Harrison, PhD. Harvard Medical School, Boston

Kristin A. Krukenberg, PhD

Favez Sarofim Fellow "The molecular mechanism of poly(ADP-ribose) in the mitotic spindle" with Timothy J. Mitchison, PhD, Harvard Medical School, Boston

Young Kwon, PhD

"Identification and validation of new regulators in Hpo signaling" with Norbert Perrimon, PhD, Harvard Medical School, Boston

Ying Lu, PhD*

"Single-molecular study of ubiquitination/deubiquitination kinetics in cell extracts" with Marc W. Kirschner, PhD, Harvard Medical School, Boston

John R. Lydeard, PhD

"Defining CRL4 substrates and regulators through a systematic proteomic and functional analysis of DCAFs" with Jeffrey Wade Harper, PhD, Harvard Medical School, Boston

Rebecca S. Mathew, PhD

Howard Hughes Medical Institute Fellow "Revealing epigenetic changes that underlie cellular memory" with Danesh Moazed, PhD, Harvard Medical School,

Joshua J. Sims, PhD*

"Regulation of mitochondrial apoptosis" with Peter K. Sorger, PhD, Harvard Medical School, Boston

Scott J. Valastvan, PhD*

Harry Kriegel Fellow

"A novel system for the unbiased discovery of genes that regulate breast cancer metastasis" with Joan S. Brugge, PhD. Harvard Medical School, Boston

Ilan Wapinski, PhD

Howard Hughes Medical Institute Fellow "Unraveling the costs and benefits of gene expression on cellular growth" with Roy Kishony, PhD, Harvard Medical School, Boston

Dong Yan, PhD

Howard Hughes Medical Institute Fellow "Building a kinase and phosphatase network using phosphorylation signatures" with Norbert Perrimon, PhD. Harvard Medical School, Boston

Alexandra Zidovska, PhD

"Cell division under confinement: exploring mechanisms for cell division and volume regulation" with Timothy J. Mitchison, PhD. Harvard Medical School, Boston

Niels Bradshaw, PhD

"Regulation of the SpoIIE phosphatase and activation of a cell-specific transcription factor" with Richard M. Losick, PhD, Harvard University, Cambridge

William J. Greenleaf, PhD

"Fluorogenic single-molecule fluorescence enzymology" with X. Sunney Xie. PhD, Harvard University, Cambridge

David G. Hendrickson, PhD

Robert Black Fellow

"A guiding role for lincRNAs in the establishment of cancer-like epigenetic landscapes" with John L. Rinn, PhD, Harvard University, Cambridge

Josselin Milloz, PhD

"Coordination of quiescence, meiosis and autophagy in the yeast Saccharomyces cerevisiae" with Sharad Ramanathan. PhD, Harvard University, Cambridge

Sumeet Sarin, PhD*

Marion Abbe Fellow

"A molecular mechanism of spatial pattern formation in the vertebrate retina" with Joshua R. Sanes, PhD, Harvard University, Cambridge

Cole Trapnell, PhD*

"Globally characterizing lncRNA oncogenes with next-generation transcriptomics" with John L. Rinn, PhD, Harvard University, Cambridge

Ken S. Lau, PhD

Robert Black Fellow

"In vivo systems analysis of network level signaling properties in the intestinal epithelium during acute inflam-

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matory stimulus" with Kevin M. Haigis, PhD, and Douglas A. Lauffenburger. PhD, Massachusetts General Hospital,

Taiowa A. Montgomery, PhD

"Mechanisms of microRNA-directed RNA silencing" with Gary B. Ruvkun, PhD, Massachusetts General Hospital, Boston

Ian Y. Wong, PhD

"Suppressing cancer cell invasion and plasticity in 3D microenvironments" with Mehmet Toner, PhD, and Daniel Irimia, MD, PhD, Massachusetts General Hospital, Boston

Yimon Aye, PhD

"Investigations toward mechanistic understanding of human ribonucleotide reductase β -subunit-specific inhibition by triapine" with JoAnne Stubbe, PhD, Massachusetts Institute of Technology, Cambridge

Robert K. Bradley, PhD

"Investigating the splicing co-regulatory network" with Christopher B. Burge, PhD, Massachusetts Institute of Technology, Cambridge

Nadya Dimitrova, PhD

Robert Blount Family Fellow "Functional characterization of the role of p53-regulated lincRNAs in tumorigenesis" with Tyler Jacks, PhD. Massachusetts Institute of Technology Cambridge

Daniel A. Heller, PhD

"Molecularly imprinted polymeric antibodies for tumor-targeted siRNA delivery" with Robert S. Langer, ScD, Massachusetts Institute of Technology, Cambridge

Nikhil S. Joshi, PhD

"Understanding the development and function of regulatory T cells in an autochthonous mouse model of human non-small cell lung cancer" with Tyler Jacks, PhD, Massachusetts Institute of Technology, Cambridge

Daniel Schmidt, PhD*

Norman B. Leventhal Fellow

"Molecular-targeted reagents to probe the role of ion channels in glioblastoma oncogenesis, proliferation, and migration" with Edward S. Boyden, PhD, Massachusetts Institute of Technology, Cambridge

William Rodney Hardy, PhD

"Elucidation of signal transduction pathways controlling oncogene-induced senescence and their protective roles against melanoma and breast cancer" with Michael R Green MD PhD University of Massachusetts Medical School, Worcester

Meelad M. Dawlaty, PhD

"Deciphering the genetics and epigenetics of glioblastomagenesis by direct in vitro reprogramming of glioblastoma multiforme progenitor cells" with Rudolf Jaenisch, MD, Whitehead Institute for Biomedical Research, Cambridge

Jared T. Nordman, PhD

Howard Hughes Medical Institute Fellow "Cell cycle control of DNA replication in metazoans" with Terry L. Orr-Weaver, PhD, Whitehead Institute for Biomedical Research, Cambridge

MISSOURI

Elizabeth M. Duncan, PhD

Howard Hughes Medical Institute Fellow "Epigenetic regulation of cellular memory during planarian regeneration" with Aleiandro Sánchez Alvarado, PhD. Stowers Institute for Medical Research,

Tiffany A. Reese, PhD

"The immune response to latent gamma herpesvirus infection" with Herbert W. Virgin, IV, MD, PhD, Washington University, St. Louis

NEW JERSEY

Björn F.C. Kafsack, PhD

Howard Hughes Medical Institute Fellow "Density-dependent autocrine control of gametocytogenesis in the virulent malaria parasite Plasmodium falciparum" with Manuel Llinás, PhD, Princeton University, Princeton

Jung-Min Kee, PhD

"Investigation of histidine phosphorylation in histone H4 through synthetic protein chemistry" with Thomas W. Muir, PhD, Princeton University, Princeton

NEW YORK

Duncan J. Smith, PhD

Howard Hughes Medical Institute Fellow "Lagging strand synthesis and chromatin replication" with Iestyn Whitehouse, PhD. Memorial Sloan-Kettering Cancer Center, New York

Jelena Nedjic, PhD

"Molecular mechanisms of leukemia metastasis and tissue infiltration" with Iannis Aifantis, PhD, New York University School of Medicine, New York

Maria Genander, PhD*

Dale F. and Betty Ann Frey Fellow "Deciphering the mechanisms governing BMP regulated stem cell maintenance in hair follicles" with Elaine V. Fuchs, PhD, The Rockefeller University, New York

TENNESSEE

Matthew F. Calabrese, PhD

Howard Hughes Medical Institute Fellow "Ubiquitin interactions with a novel ubiquitin recognition motif" with Brenda A. Schulman, PhD, St. Jude Children's Research Hospital, Memphis

NORTH CAROLINA

Erin A. Osborne, PhD*

Howard Hughes Medical Institute Fellow "When paths diverge: patterns and mechanisms of asymmetric cell division" with Jason D. Lieb, PhD. The University of North Carolina, Chapel Hill

WISCONSIN

Jihye Yun, PhD*

"Transcription factors for engraftable hematopoietic stem cells" with James A. Thomson, VMD, PhD, Morgridge Institute for Research, University of Wisconsin, Madison

* Initial Award

Dale F. Frey Award for Breakthrough **Scientists**

Ken Cadwell, PhD

"Characterization of mice deficient in autophagy protein Atg16L1", New York University School of Medicine, New York, New York

L. Stirling Churchman, PhD

"Visualizing global transcription in vivo at nucleotide resolution". Harvard Medical School, Boston, Massachusetts

Damon Runyon-Rachleff Innovation Award Committee

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Damon Runyon-Rachleff Innovation Award

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Alexei A. Aravin, PhD*

"Epigenetic regulation of transposable elements in cancer" at the California Institute of Technology, Pasadena

Joshua E. Elias, PhD*

"How cancers cope with damage: a proteomics approach" at Stanford University School of Medicine, Stanford

Heather R. Christofk, PhD

"Regulation of cancer metabolism" at the University of California, Los Angeles

MASSACHUSETTS

James E. Bradner, MD*

"Targeting epigenetic readers as cancer therapy" at the Dana-Farber Cancer Institute, Boston

John L. Rinn, PhD

"The functional roles of large intergenic non-coding RNAs in cancer" at Harvard University, Cambridge

Matthew G. Vander Heiden, MD, PhD*

"Understanding the metabolic requirements of cancer cells" at the David H. Koch Institute of Massachusetts Institute of Technology, Cambridge

MICHIGAN

Ivan Maillard, MD, PhD and Yi Zhang, MD, PhD

"Modulation of Notch signaling to control graft-versus-host-disease and preserve the anti-tumor activity of alloreactive T cells" at the University of Michigan, Ann Arbor

NEW YORK

Raffaella Sordella, PhD

Island Outreach Foundation Innovator "Characterization of Erlotinib resistant. Mesenchymal and Metastatic (EMM) cells present in naïve lung tumors prior to treatments" at Cold Spring Harbor Laboratory, Cold Spring Harbor

Joshua C. Munger, PhD

"Elucidating mechanisms of oncogenic metabolic manipulation" at the University of Rochester, Rochester

Benjamin P. Tu, PhD*

"A novel strategy for attacking tumors based on the identification of a fundamental carbon-source signal driving cell growth" at the University of Texas Southwestern Medical Center, Dallas

WASHINGTON

Muneesh Tewari, MD, PhD

"Cancer detection in 'pre-diagnosis' blood samples via microparticle-associated RNAs" at the Fred Hutchinson Cancer Research Center Seattle







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Damon Runyon Clinical Investigator Awards

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Jean Y. Tang, MD, PhD*

"Mechanisms of acquired resistance to Hedgehog pathway inhibitors in basal cell carcinomas" with Philip A. Beachy, PhD, and Ervin H. Epstein, MD, Stanford University, Stanford

CONNECTICUT

Tobias J.E. Carling, MD, PhD

Doris Duke-Damon Runyon Clinical Investigator

"Molecular genetics of endocrine tumor disease" with Richard P. Lifton, MD, PhD, and Robert Udelsman, MD, MBA, Yale University School of Medicine, New Haven

ILLINOIS

Vu H. Nguyen, MD

August M. Watanabe, MD, Clinical Investigator

"Organ-specific regulatory T cells as a targeted therapy for graft-versus-host disease" with Thomas F. Gajewski, MD, PhD, The University of Chicago, Chicago

MICHIGAN

N. Lynn Henry, MD, PhD

"Pain processing pathway analysis in aromatase inhibitor-associated musculoskeletal syndrome" with Daniel F. Hayes, MD, University of Michigan, Ann Arbor

MINNESOTA

Andrew L. Feldman, MD

"Investigation of IRF4 as a therapeutic target in T-Cell lymphomas" with Stephen M. Ansell, MD, PhD, and Ahmet Dogan, MD, PhD, Mayo Clinic, Rochester

NEW YORK

Igor Matushansky, MD, PhD

Gordon Family Clinical Investigator
"Implementing and imaging epigenetic
based differentiation therapy for solid
tumors" with Carlos Cordon-Cardo,
MD, PhD, Columbia University, New York

Zsofia K. Stadler, MD*

"Characterization of de novo germline genetic alterations in cancer susceptibility" with Kenneth Offit, MD, MPH, and Michael H. Wigler, PhD, Memorial Sloan-Kettering Cancer Center, New York

NORTH CAROLINA

William Y. Kim, MD

Merck Clinical Investigator
"Molecular determinants of clinical
response to EGFR inhibition in bladder
cancer" with Charles M. Perou, PhD,
University of North Carolina, Chapel Hill

C. Ryan Miller, MD, PhD

Genentech Clinical Investigator
"Genomics-driven drug development
for glioblastoma" with Charles M.
Perou, PhD, and Terry Van Dyke, PhD,
University of North Carolina, Chapel Hill

TEXAS

Ralph J. DeBerardinis, MD, PhD*

"Translational studies in cancer metabolism" with Helen H. Hobbs, MD, University of Texas Southwestern Medical Center, Dallas

UTAH

Joshua D. Schiffman, MD*

"Microsatellite length and integrin signaling as risk factors for Ewing's Sarcoma" with Stephen L. Lessnick, MD, PhD, University of Utah, Salt Lake City

WASHINGTON

Marie Bleakley, MD, PhD*

Richard A. Lumsden

Foundation Investigator
"Segregating the GVL effect from
GVHD in humans" with Stanley R.
Riddell, MD, Fred Hutchinson Cancer
Research Center, Seattle

Brian G. Till, MD

Pfizer Clinical Investigator
"Optimization of adoptive immunotherapy for lymphoma using genetically modified CD20-specific T cells" with Oliver W. Press, MD, PhD, Fred Hutchinson Cancer Research Center, Seattle

WISCONSIN

Kevin R. Kozak, MD, PhD

Genentech Clinical Investigator
"Radiosensitization with antiangiogenic
therapy" with Paul M. Harari, MD,
University of Wisconsin, Madison

This award program is currently supported by founding sponsor Eli Lilly and Company in addition to Genentech, Merck and Company, Novartis Pharmaceuticals Corporation, Siemens Medical Solutions, Inc. and Pfizer, Inc.

* Initial Award

Damon Runyon Clinical Investigator Award Continuation Grants

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Novartis Clinical Investigator
"Novel biologically targeted therapy
against the Mer receptor tyrosine
kinase in the treatment of pediatric
ALL" with James V. DeGregori, PhD,
and Sue Gail Eckhardt, MD, University
of Colorado Denver, Aurora

MASSACHUSETTS

Rachael A. Clark, MD, PhD

"Reversing immune evasion in human squamous cell carcinomas of the skin" with Thomas S. Kupper, MD, Brigham and Women's Hospital, Boston

Catherine J. Wu, MD

"Immune-targeted leukemia antigens for eradication of CML stem cells" with Jerome Ritz, MD, Dana-Farber Cancer Institute, Boston

Andrew T. Chan, MD, MPH "Molecular imaging of colorectal

molecular imaging of colorectal neoplasia" with Charles S. Fuchs, MD, MPH, and Ralph Weissleder, MD, PhD, Massachusetts General Hospital, Boston

NEW JERSEY

Vassiliki Karantza, MD, PhD

"Autophagy as a therapeutic target in breast cancer treatment" with Robert S. DiPaola, MD, UMDNJ/Robert Wood Johnson Medical School, New Brunswick

WASHINGTON

Colleen S. Delaney, MD, MSc Novartis Clinical Investigator

"Notch-mediated ex vivo expansion of cord blood progenitors for hematopoietic cell transplantation" with Irwin D. Bernstein, MD, and Frederick R. Appelbaum, MD, Fred Hutchinson Cancer Research Center. Seattle

Elahe A. Mostaghel, MD, PhD Genentech Clinical Investigator

"Defining and exploiting molecular mechanisms of androgen metabolism for prostate cancer therapy" with Peter S. Nelson, MD, Fred Hutchinson Cancer Research Center. Seattle

The Continuation Grant Program is supported by the William K. Bowes Jr. Foundation, and Connie and Bob Lurie.

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A number of Clinical Investigators are named in recognition of generous support from Eli Lilly and Genentech, Inc.; Merck and Company; Novartis Pharmaceuticals Corporation; and Pfizer, Inc. Please refer to page 14 for a list of those who hold this distinction.

INNOVATORS

Island Outreach Foundation Innovator

Raffaella Sordella, PhD

Cold Spring Harbor Laboratory Cold Spring Harbor, New York

The Damon Runyon-Rachleff Innovation Award is funded by the generous support of Andrew and Debra Rachleff. Please refer to page 12 for a list of Rachleff Innovators.

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The full pledge amount is listed in the

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Discovery Society 2011

DISCOVERY SOCIETY members are valued supporters who have provided for the Damon Runyon Cancer Research Foundation through planned gifts. These donations provide a vital source of support and fuel future breakthroughs against cancer.

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Financial Summary

Fiscal Year 2011

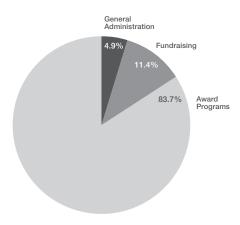
AS IN PREVIOUS YEARS, the financial activities of the Damon Runyon Cancer Research Foundation were audited by McGladrey and Pullen, LLP. For our complete audited financial statements, please visit our website at **www.damonrunyon.org**.

Overall Financial Health SUMMARY OF BALANCE SHEETS

The Damon Runyon Cancer Research Foundation remained fiscally strong in FY 2011. Thanks to our donors, our revenues grew, enabling us to expand our scientific program funding.

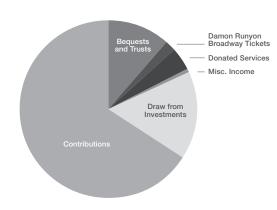
	2010	2011
Total Assets	\$92,257,373	\$106,487,205
Total Liabilities	\$15,513,605	\$17,214,923
Total Net Assets	\$76,743,768	\$89,272,282

Where Our Money Goes SUMMARY OF OPERATING EXPENSES



Total Operating Expenses: \$13.8 Million

Where Our Support Comes From



Total Operating Revenue: \$15.1 Million

"The challenge for cancer is still strong, but there is new progress being made. The science is complex and demanding, but I think it's really going to pay off very handsomely. **We're at this kind of tipping point for cancer research**, where we can truly start thinking about how to harness all of this knowledge—medical, biomedical, treatment—to prevent disease entirely or intercept it earlier."

ELIZABETH H. BLACKBURN, PhD

Damon Runyon-Rachleff Innovation Award Committee Member Professor of Biology and Physiology University of California, San Francisco

"We are entering an exciting and unprecedented new era in translational cancer research.

Basic lab studies and new genome-scale technologies are creating optimism that we can actually understand the biological complexity in different patients' tumors. We have already seen successes against cancers that were considered incurable 5 years ago (for example, multiple myeloma, advanced prostate cancer, and melanoma). These efforts are completely changing the way we do cancer research: the new science is being performed by highly collaborative, multi-disciplinary teams of basic and clinical researchers in close coordination with industrial partners. We have never been this excited or confident about our ability to have major, transformative impact on cancer mortality."

DAVID J. McCONKEY, PhD

Damon Runyon Fellowship Award Committee Member Director of Urological Research Professor of Cancer Biology and Urology University of Texas MD Anderson Cancer Center

"It's an incredibly important year in realizing the promises of new innovation in cancer research. For the first time, the government reported that a patient diagnosed with cancer has a two-thirds likelihood of being alive and cancer-free five years later. That is a great accomplishment in a generation. The excitement going forward is that we can combine new approaches—turning off genes that cause cancer while hiring the immune system to clean up the rest of the damage—and turn them into a cure."

CRAIG B. THOMPSON, MD

President and Chief Executive Officer Memorial Sloan-Kettering Cancer Center



DAMON RUNYON HAS RECEIVED AN OUTSTANDING 4 STARS from Charity Navigator, indicating that the Foundation "exceeds industry standards and outperforms most charities in its Cause."



